



Lesson Plan

Title of Lesson: Travel Expense Logs		Date:	Timeframe of Lesson: 90 min
Author(s): Laura Erke		School District: Lakewood School	
		Campus:	
Subject Area(s): Math		Grade Level(s)/Course: 8 th grade	
State Standards	<p>Subject Specific: Mathematics</p> <p>E.8.1 Work with data in the context of real-world situations by:</p> <ul style="list-style-type: none">• using technology to generate displays, summary statistics*, and presentations <p>E.8.2 Organize and display data from statistical investigations using:</p> <ul style="list-style-type: none">• appropriate tables, graphs, and/or charts (e.g., circle, bar or line for multiple sets of data) <p><i>Technology Specific:</i></p> <p>A.8.3 Use a computer and productivity software to organize and create information</p> <ul style="list-style-type: none">• construct a simple spreadsheet, enter data, and interpret the information• plot and use different types of charts and graphs (e.g., line, bar, stacked, scatter diagram, area, pie charts, pictogram) from a spreadsheet program		
Stated Objective(s) Include the focused Instructional Strategy – see chart on page 13.	<p>Non-linguistic representation- spreadsheet software.</p> <p>Students will represent numerical information in an Excel spreadsheet.</p> <p>Students will set up formulas in an Excel spreadsheet.</p> <p>Students will create a graphical representation of data.</p>		
Procedures for Lesson	<p>This lesson is part of a unit in which students plan and set budgets for a summer vacation roadtrip.</p> <p>Students will have already gathered the data on the following: the amount of miles traveled, the MPG for their chosen vehicle, the price of gas, the cost of food and lodging. This lesson will focus on setting the formulas to calculate the total cost of the trip.</p> <ul style="list-style-type: none">▪ Have students open a new sheet in Excel. Using the projector, guide the students on setting up their spreadsheet. When they have their data entered on gas price, mileage, and MPG, guide students in setting up the formula that will calculate the total amount of money spent on fuel costs. Next, show students how to set a formula that will add their costs of fuel to their lodging and food costs to provide a total of travel expenses. Give students time to input all of their data. When they are finished, show them how to create a graph that will illustrate the distribution of the costs.		

Assessment or Evaluation	<i>Students will be evaluated informally during the lesson and given feedback as they work. Their final spreadsheet will be assessed as part of their unit project that will be a compilation of all work done during the unit. This portion of the project will be assessed on completion of their spreadsheet, accuracy of their formulas, and completion of their graphs.</i>
Enrichment	
Materials	<i>Data collected from earlier lessons</i>
	<p><u>Technology Resources:</u> Microsoft Excel software, computers, projector</p> <p><u>Other Resources:</u></p>